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Fig. 11. Nassula trichocystis. × 450.
" 12. Urostyla vernalis. × 190.
" 13. Acineta corrugata ; mature, but not old, form. × 400.
" 14. Acineta corrugata ; transverse, subcentral, optical section. × 400.
" 15. Acineta corrugata ; surface view of the frontal region ; somewhat more enlarged than in Figs. 13, 14.
" 16. Acineta flexilis. × 560.

Obituary Notice of John M. Maisch.

By Charles S. Dolley, M.D.

(*Read before the American Philosophical Society, December 7, 1894.*)

The preëminence which American pharmacy has for many years maintained may without doubt be largely attributed to the scientific zeal and ability of the teachers of pharmaceutical science in the various institutions of the country. To no one belongs a greater meed of praise than to the late Prof. Maisch, a member of the American Philosophical Society, to which he was elected January 18, 1884.

John Michael Maisch was born of humble parents in Hanau on the Main, Germany, on the 3d of January, 1831. His early education was obtained at the free schools of his native town, and he soon attracted the special attention of his teachers on account of his aptness and diligence. Under one Theobald, he was introduced to the study of mineralogy and microscopy and began practical field work in the vicinity of Hanau, and it was largely due to the interest awakened by this teacher that he became ambitious for a university education and was led to seek instruction outside that afforded him by the curriculum of his school.

Under Dr. Bromies he soon demonstrated his fitness for original investigation in chemistry, and was permitted by him to assist in certain studies of the fatty acids and resins.

For a time his inclinations were towards theology, but his increasing interest in natural science led him to abandon the idea and to devote himself with such ardor to his scientific studies as to undermine his strength to such an extent that it became necessary not only to give up close application for a time, but, in the end, to relinquish his strong desire for a university course.

Entering the military service of Hesse, he became impregnated with the revolutionary ideas rife among the soldiery, and recognizing the inconsistency of his position, he resigned his post and, joining the Turners of

Hanau, accompanied them in their excursions through the Valley of the Main, assisting them in the promulgation of revolutionary sentiments.

In 1849, while engaged in this work, he was arrested at Sinsheim and sentenced to four and a half years' imprisonment with hard labor; but through the connivance of friends he soon after effected his escape and managed to emigrate to America. Landing almost penniless in Baltimore, young Maisch took up for a time with factory work, but soon managed through his fondness for natural science to make the acquaintance of Drs. Wiss and Vogler, who aided him in the study of pharmacy and gave him employment for a time during the years 1850-51 in a drug store owned by the former. This store being sold, Mr. Maisch removed to Washington, where he served in a drug store until 1853, when his parents and sisters having come to Philadelphia, he joined them there. For about two years he acted as drug clerk in Philadelphia and New York and finally entered a chemical factory in Brooklyn. From 1856 to 1859 he was employed by the firm of E. B. Garrigues and Robert Shoemaker, of Philadelphia, and in the latter year he accepted an instructor's position in the School of Pharmacy conducted by Prof. Parrish in an upper room at the southwest corner of Eighth and Arch streets.

Here his natural love for research, his tact and ability as a teacher attracted attention and led to his call to the Professorship of Pharmacy and Materia Medica in the College of Pharmacy of the City of New York, his spare time being employed in the laboratory of Dr. E. R. Squibb. Prof. Maisch returned to Philadelphia in 1863, when under Surgeon-General Hammond he organized the U. S. Army Laboratory, which, during the two and a half years in which he conducted it, is said to have effected a saving to the Government of nearly a million of dollars. After the War and until 1871 Prof. Maisch carried on a retail drug business at 1607 Ridge avenue, but finally gave it up on account of his increasing duties at the Philadelphia College of Pharmacy and as the Secretary of the American Pharmaceutical Association, of which he had been from 1856 one of the most active members.

It was in 1866 that John Maisch succeeded William Proctor, Jr., in the Chair of Pharmacy, but in the ensuing year he exchanged Chairs with Prof. Parrish, assuming the title of Professor of Materia Medica and Botany. This position Prof. Maisch retained until his death on the 10th of September, 1892. In 1860 he was elected a member of the Board of Trustees of the Philadelphia College of Pharmacy and ten years later accepted the editorship of the *American Journal of Pharmacy*. That John Maisch was a man of unwearied industry, absolute integrity and profound knowledge, is the unanimous testimony of all who were familiar with him and with his teachings and writings, a fact which was emphasized by the conference of the Hanbury Gold Medal upon him by the Pharmaceutical Society of Great Britain for distinguished services and original research in the natural history of drugs. The following is a list of Prof. Maisch's contributions to science :

John M. Maisch

1854. On the Adulteration of Drugs and Chemical Preparations. Amer. Journ. Pharm.
Liquor Ferri Iodide. *Ibid.*
1855. On the Incompatibility of Sulphate of Quinia with the Acetates. *Ibid.*
Examination of Bitartrate of Potassa. *Ibid.*
Effects of Sunlight on the Syrup of Iodide of Iron. *Ibid.*
Translation of M. Strecker's Paper on Quinine. *Ibid.*
Contributions to Toxicology. *Ibid.*
1856. On Convenient Modes of Administering Cod Liver Oil. *Ibid.*
On the Relations of Physicians and Pharmaceutists. *Ibid.*
Contributions to Toxicology. *Ibid.*
On an Expeditious Mode of Making Mercurial Ointment. *Ibid.*
On Solution of Gutta Percha. *Ibid.*
On Sulphate of Quinine and Carbonate of Ammonia in Pills. *Ibid.*
On Wine of Colchicum Seed. *Ibid.*
1857. On Protiodide of Mercury. *Ibid.*
On Effervescing Powders. *Ibid.*
Solubility of Iodides in Syrupus Ferri Iodidi. *Ibid.*
On Fluid Extract of Arnica. *Ibid.*
On Fluid Extract of *Uva ursi*. *Ibid.*
On the Detection of a New Falsification of Oil of Bitter Almonds. *Ibid.*
American Eclectic Resinoids. Buchner's Repertorium für Pharmacie, Vol. vi, p. 481.
1858. On the Sale of Poisons in the United States. *Ibid.*, Vol. vii, p. 267.
On Fluid Extracts in the United States. *Ibid.*, Vol. vii, p. 297.
Remarks on Some Pharmaceutical Preparations. Amer. Journ. Pharm.
On Diluted Acetic Acid. *Ibid.*
On the Preservation of Drugs from Insects. *Ibid.*
Note on Syrup of Hypophosphites. *Ibid.*
On the Decomposition of the Quinia by the Acetates. *Ibid.*
1859. On Extractum Ferri Pomatum. *Ibid.*
On the Preservation of Fluid Extracts. *Ibid.*
On the New System of German Weights. *Ibid.*
On the Proper Menstruum for Fluid Extracts. *Ibid.*
Notes on Fluid Extracts of Buchu, Cimicifuga, Serpentaria and Valerian. *Ibid.*
On the Solubility of Phosphate of Iron. *Ibid.*
On a New Mode of Preparing Some Syrups. *Ibid.*
Manufacturing Pharmacy in the United States. Buchner's Repertorium, Vol. viii, p. 433.
1860. On Examination of Oil of Peppermint. Amer. Journ. Pharm.
On Some Preparations of Calamus Root. *Ibid.*
Gleanings from the German Journals (three articles). *Ibid.*

1860. Alumen Exsiccatum. *Ibid.*
Analysis of Commercial Glacial Phosphoric Acid. *Ibid.*
Note on Benzoic Acid and Some Benzoates. *Ibid.*
On the Detection of Croton Oil in Mixtures. *Ibid.*
Analysis of Milk. *Ibid.*
Chemical Notes. *Ibid.*
Alumen ustum. Buchner's Repertorium, Vol. ix, p. 127.
United States Pharmacy. *Ibid.*, p. 145.
1861. On *Chelidonium majus*. Amer. Journ. Pharm.
On the Adulteration of Carmine. *Ibid.*
On Commercial Iron by Hydrogen. *Ibid.*
On the Importation of Mineral Waters. *Ibid.*
Analysis of the Chalybeate Waters of Sharon Spring, New York. *Ibid.*
On Anacahinte Wood. *Ibid.*
On the Tincture and Ferrated Tincture of Bark. *Ibid.*
On the Origin of Bay Rum. *Ibid.*
On the Volatile Oil of *Myrcia acris*. *Ibid.*
On the Ferrated Tincture of Cinchona. *Ibid.*
On the Conversion of Monohydrated into Common Phosphoric Acid. *Ibid.*
Gleanings from the German Journals (four articles). *Ibid.*
Chemical Examination of Cocoa Leaves. *Ibid.*
On the Mineral Water Trade in the United States. Buchner's Repertorium, Vol. x, p. 257.
On the Medical Flora of the Vicinity of Philadelphia. *Ibid.*, Vol. x, pp. 289 and 359.
1862. Gleanings from the German Journals. Amer. Journ. Pharm.
On Commercial Belladonna Leaves. *Ibid.*
Report of Committee on Herbarium. *Ibid.*
On the Standing of the Pharmacist in the United States Army. Buchner's Repertorium, Vol. xi, p. 294.
On Snake-bite Remedies in the United States. *Ibid.*, p. 352.
1863. On Copaiba Pills. Amer. Journ. Pharm.
Gleanings from the German Journals. *Ibid.*
Note on the Alkaloids of *Menispernum Canadense*. *Ibid.*
Note on Podophyllum. *Ibid.*
1864. Practical and Scientific Notes. *Ibid.*
On Impurities and Adulterations. *Ibid.*
Gleanings from German Journals. *Ibid.*
On the Contamination of American Sulphuric Acid with Arsenic. *Ibid.*
1865. On the Preparation of Heavy Oil of Wine. *Ibid.*
1866. On the Active Principle of Rhus Toxicodendron. *Ibid.*
1867. On Liquor Magnesiæ Citratis. *Ibid.*
On Liquor Ferri Acetatis. *Ibid.*

1867. On the Specific Gravity of Medicinal Chloroform. *Ibid.*
On Colchicia. *Ibid.*
On Tests for the Purity of Glycerin. *Ibid.*
On Carelessness in the Collection of Drugs. *Ibid.*
Note on Cheap Glycerin. *Ibid.*
Gleanings from the German Journals (two articles). *Ibid.*
On a Permanent Solution of Pyrophosphites of Soda and Iron. *Ibid.*
Review of Pharmacopœia Helvetica. *Ibid.*
1868. Gleanings from the German Journals. *Ibid.*
On Chloroform. *Ibid.*
Note to Editor on False Jalap. *Ibid.*
1869. Gleanings from the German Journals (four articles). *Ibid.*
On the Milky Juice of *Lactuca elongata*. *Ibid.*
On Some Panama Drugs. *Ibid.*
On the Nomenclature and Definitions of the United States Pharmacopœia. *Ibid.*
1870. On *Lycopodium clavatum*. *Ibid.*
On the Weeds of Western Peppermint Plantations. *Ibid.*
Gleanings (three articles). *Ibid.*
On Pharmaceutical Legislation. *Ibid.*
On Solubility of Glue in Glycerin. *Ibid.*
1871. Decomposition of Acetate of Morphia in Aqueous Solution. *Ibid.*
Detection of Turmeric in Powd. Rhubarb and Mustard. *Ibid.*
Ferrated Elixir of Cinchona. *Ibid.*
Gleanings from Foreign Journals. *Ibid.*
Gleanings from German Journals (four articles). *Ibid.*
Fluid Extract of Chestnut Leaves. *Ibid.*
Note on Amylo-nitrous Ether. *Ibid.*
Note on Hydrocyanate of Morphia. *Ibid.*
Note on Some Pill Masses. *Ibid.*
Precipitation of Quinia by Iodide of Potassium. *Ibid.*
Seeds of Two Species of Strychnos. *Ibid.*
Solutions of Alkaloids in Medicated Waters. *Ibid.*
Syrupus Assafœtidæ. *Ibid.*
1872. Gleanings from the European Journals (twelve articles). *Ibid.*
Loss of the Herbaceous Parts of Plants in Drying. *Ibid.*
Monobromated Camphor. *Ibid.*
On an Asserted Specific for Ague. *Ibid.*
On Some Pectoral Powders of European Pharmacy. *Ibid.*
On the Botanical Origin of Root of Cypripedium. *Ibid.*
On the So-called African Saffron. *Ibid.*
Pharmacognostical Notes. *Ibid.*
Use of Petroleum Benzine in Making Oleoresins. *Ibid.*
1873. Chloride of Mercurethyl. *Ibid.*
Impurities Among Rhizomes of Cypripedium. *Ibid.*
Levico Mineral Water. *Ibid.*

1873. Gleanings from European Journals. *Ibid.*
Medicinal Use of Green Soap. *Ibid.*
Remarks on Elixirs. *Ibid.*
Selected Formulas from Pharm. Germ. *Ibid.*
Spirit of Nitrous Ether a Supposed Test for Some Alkaloids. *Ibid.*
1874. Balsams *Liquidamber styraciflua* and *orientale*. *Ibid.*
Gleanings from European Journals (nine articles). *Ibid.*
Notes on Some North American Drugs. *Ibid.*
Occurrence of Arbutin in Some Ericaceous Plants. *Ibid.*
Pharmacognostical and Chemical Notes. *Ibid.*
Remarks on Resin of Podophyllum. *Ibid.*
1875. Constituents and Properties of Potentilla. *Ibid.*
Gleanings from European Journals (nine articles). *Ibid.*
Medicated Waters. *Ibid.*
Note on Tinctura Opii Muriatica. *Ibid.*
On Some Substitutions. *Ibid.*
Remarks on Cinchoquinine. *Ibid.*
1876. Asserted Presence of Tannin in Gentian. *Ibid.*
Fucus vesiculosus and Some Allied Species. *Ibid.*
Gleanings from Foreign Journals (ten articles). *Ibid.*
Notes on the Genus Teucrium. *Ibid.*
Notes on the International Exposition (three articles). *Ibid.*
Notes on the Quinine Flower. *Ibid.*
Remarks on Cinchoquinine. *Ibid.*
Remarks on Extract of Jalap. *Ibid.*
Use of Metrical Weights in Prescriptions. *Ibid.*
1877. Detection of Castor Oil in Copaiba. *Ibid.*
Examination of a Cure for Love of Liquor. *Ibid.*
Formulas and Preparations of New Medicaments. *Ibid.*
Gleanings from the Foreign Journals (eight articles). *Ibid*
Note on Dialyzed Iron. *Ibid.*
Note on *Xanthium spinosum*. *Ibid.*
Note on the Permanent Exhibition. *Ibid.*
The Metrical System in Prescriptions. *Ibid.*
The Strength of Tinctura Opii. *Ibid.*
1878. *Aspidium marginales*. *Ibid.*
Berberis of the Pacific Coast. *Ibid.*
Gleanings from Foreign Journals (six articles). *Ibid.*
Notes on a Few American Drugs. *Ibid.*
Useful Species of Viburnum. *Ibid.*
1879. Artificial Fruit Essences. *Ibid.*
Poisonous Species of Astragalus. *Ibid.*
Sulphocarbolate of Potassium. *Ibid.*
Supposed Alkaloids of Podophyllum. *Ibid.*
1880. Note on Some American Species of Artemesia. *Ibid.*
Presence of Tannin in Gentian. *Ibid.*

1881. Compound Spirit of Cinnamon. *Ibid.*
Dose of Extract Physostigmatis. *Ibid.*
Georgia Bark. *Ibid.*
Manufacture of Quinia in the United States. *Ibid.*
Oleum Betulæ Empyreumaticum. *Ibid.*
Gleanings in Materia Medica (four articles). *Ibid.*
Origin of False Senega. *Ibid.*
Orthography of the Metric Units. *Ibid.*
Poisonous Principle of Anacardium. *Ibid.*
Practical Notes from Foreign Sources. *Ibid.*
Stearopten of Buchu Leaves. *Ibid.*
Tinctura Rusci. *Ibid.*
Xanthorrhœa Resins. *Ibid.*
1882. Gleanings in Materia Medica (ten articles). *Ibid.*
Practical Notes from Various Sources. *Ibid.*
Preparation of Mercurial Ointment. *Ibid.*
Syr. Ferri Protochloridi. *Ibid.*
China and Allied Species of Salvia. *Ibid.*
Useful American Myrtles. *Ibid.*
1883. Comparison of Galenical Preparations (six articles). *Ibid.*
Galenical Preparations of the German Pharmacopœia (four articles). *Ibid.*
Gleanings in Materia Medica (eight articles). *Ibid.*
Practical Notes from Various Sources (five articles). *Ibid.*
Relative Strength of Certain Preparations. *Ibid.*
1884. Chemical and Pharmacognostical Notes. *Ibid.*
Laboratory Notes—Abstracts from Theses (two articles). *Ibid.*
Notes on Researches on Capillarity. *Ibid.*
Practical Notes. *Ibid.*
1885. Gleanings in Materia Medica (eight articles). *Ibid.*
Materia Medica of the Mexican Pharmacopœia (eight articles). *Ibid.*
Pharmaceutical Preparations of the Mexican Pharmacopœia (four articles). *Ibid.*
Practical Notes (two articles). *Ibid.*
Commercial Spanish Saffron. *Ibid.*
Indigenous Species of Croton. *Ibid.*
Useful Plants of the Verbenaceæ. *Ibid.*
1886. Commercial Sulphate of Quinine. *Ibid.*

Gleanings in Materia Medica (six articles). *Ibid.*
Materia Medica of the New Mexican Pharmacopœia (four articles). *Ibid.*
Note on Yerba and Raiz del Indio. *Ibid.*
Practical Notes and Formulas *Ibid.*
Strophanthus or Heart Poison. *Ibid.*

1886. Gotthilf Heinrich Ernest Mühlenberg as a Botanist (An Address before the Pioneer Society of Philadelphia). Hoffman's Pharmaceutische Rundschau, New York.
1887. Chemical Notes from Theses. Amer. Journ. Pharm.
Gleanings in Materia Medica (six articles). *Ibid.*
Jalap Resin and Jalapin. *Ibid*
Practical Notes from Various Sources. *Ibid.*
Remarks on Cancer Cure. *Ibid.*
1888. Blue Coloring Matter in Flowers. *Ibid.*
Gleanings in Materia Medica. *Ibid.*
Notes on Some New Remedies. *Ibid.*
Notes on Some Old Remedies. *Ibid.*
Practical Notes from Foreign Journals. *Ibid.*
The Genus Luffa. *Ibid.*
1889. Preparations of Mustard for Internal Use. *Ibid.*
Useful Plants of the Genus *Psoralea*. *Ibid.*
Origin of False Senega Root. *Ibid.*
Notes on Some Indigenous Remedies. *Ibid.*
1890. Botanical Origin of Some Pharmacopœial Drugs. *Ibid.*
Gleanings in Materia Medica. *Ibid.*
Morphine Salts and Hydrocyanic Acid. *Ibid.*
Notes on Scopola. *Ibid.*
Pharmacopœial Assays of Drugs and Galenicals. *Ibid.*
Plant Groups and Constituents and Properties. *Ibid.*
Practical Notes from Various Sources. *Ibid.*
Prospective Camphor Industry of Florida. *Ibid.*
Some North American Medicinal Plants. *Ibid.*
1891. Notes on Vegetable Drugs used in Mexico. *Ibid.*
Notes on Some North American Medicinal Plants. *Ibid.*
1892. *Polygala alba*. *Ibid.*
Soda Mint. *Ibid.*
Vanilla Plant an Epiphyte. *Ibid.*
1893. On the Tubers of Dioscorea Species. *Ibid.*

NOTE.—The writer desires to acknowledge the kindness of Professors Remington and Trimble, of the Philadelphia College of Pharmacy, in furnishing him with data, and particularly his indebtedness to the biographical sketch by Prof. Remington, in the *American Journal of Pharmacy*.